**Introduction to Physical Geography (GEOG 1290)**

**Learning Objectives Table (LOT) - Fall 2021**

**Section A**

This table is meant as a study and note framework guide. You are encouraged to download and add in clarification notes from the video lectures, textbook, and assigned readings.

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| **A. Introduction to Physical Geography** | | | **Arbogast et al. 2017** | |
| **Section** | **Learning Objectives** | **Key Terms & Concepts Terms** | **Textbook readings** | **E-text readings** |
| **A.1** Introducing Physical Geography | Comprehend the character & scope of geography as a scientific discipline & define the subdisciplines of physical geography. | * **geography**: origins, basic characteristics * physical geography, human geography, techniques * anthropogenic landscapes * subdisciplines of geography (biogeography, meteorology, geomorphology, soils geography e**tc**.) * Location, movement, place, human environment interactions, region | **Ch.1:** The Scope of Geography (p. 2 -3) | **Ch.1:** 1.1 The Scope of Geography |
| **A.2** Scales of Inquiry | Explain the difference between spatial & temporal scale. | * spatial scale, temporal scale, small scale, large scale |  |  |
| **A.3** Matter & Energy in Earth’s Physical Systems | Differentiate between the major types of energy.  Define the four Earth spheres. | * matter, energy (potential & kinetic), * **types of energy**: radiant, heat, geothermal, chemical * **environmental spheres:** atmosphere (weather/climate), hydrosphere (cryosphere) lithosphere, biosphere | **Ch.1:** The Earth’s Four Spheres (p. 6-7) | **Ch.1:** 1.2.1. The Earth’s Four Spheres (this is a sub-heading of 1.2 listed as 1.2.1) |
| **A.4** Systems Theory | Explain the concept of a natural system.  Differentiate between positive & negative feedback. | **Systems Theory**   * + systems, systems theory   + open/closed systems, inputs/outputs   + positive/negative feedbacks   + interconnected systems | **Ch.1:** Defining Physical Geography (p. 3-7) | **Ch.1:** 1.2. Defining Physical Geography |
| **A.5** The Scientific Method | Describe how the scientific method is used in physical geography. | * steps in scientific method, hypothesis, theory | **Assigned Reading**  **Ch.1:** Physical Geography & the Scientific Method (p. 7-9) | **Assigned Reading**  **Ch.1:** 1.3. Physical Geography & the Scientific Method |